

LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended) An isolated and purified zinc finger-nucleotide binding polypeptide that ~~contains~~ consists essentially of a nucleotide binding region having the sequence of ~~any of~~ SEQ ID NO:413, ~~SEQ ID NO:7, SEQ ID NO:11, SEQ ID NO:15, SEQ ID NO:21-24, SEQ ID NO:38-47, SEQ ID NO:68-70, or SEQ ID NO:80-99.~~

Claims 2-21 (canceled)

Claim 22 (new) An isolated zinc finger-nucleotide binding polypeptide comprising from 2 to about 12 different nucleotide binding regions, said different nucleotide binding regions selected from a group consisting of the amino acid sequences set forth in SEQ ID NO:1 through SEQ ID NO:110.

Claim 23 (new) The polypeptide of claim 22 comprising from 2 to about 6 of the different nucleotide binding regions.

Claim 24 (new) The polypeptide of claim 22, wherein the different nucleotide binding regions are operatively linked together by one or more linkers having the sequence of SEQ ID NO:111.

Claim 25 (new) The polypeptide of claim 22 further operatively linked to one or more transcription regulating factors.

Claim 26 (new) The polypeptide of claim 25, wherein the one or more transcription regulating factors comprises one or more

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leucine zippers.

Claim 27 (new) An isolated and purified polynucleotide that encodes a polypeptide comprising from 2 to about 12 different nucleotide binding regions, said different nucleotide binding regions selected from a group consisting of the amino acid sequences set forth in SEQ ID NO:1 through SEQ ID NO:110.

Claim 28 (new) An expression vector containing the polynucleotide of claim 27.

Claim 29 (new) A process of regulating a nucleotide sequence that contains the sequence 5'-(GNN)_n-3' (SEQ ID NO:123), where n is an integer from 1 to 6, the process comprising exposing the nucleotide sequence to an effective amount of the polypeptide of claim 22.

Claim 30 (new) The process of claim 29 wherein the sequence 5'-(GNN)_n-3' (SEQ ID NO:123) is located in a transcribed region of the nucleotide sequence.

Claim 31 (new) The process of claim 29 wherein the sequence 5'-(GNN)_n-3' (SEQ ID NO:123) is located in a promoter region of the nucleotide sequence.

Claim 32 (new) The process of claim 29 wherein the sequence 5'-(GNN)_n-3' (SEQ ID NO:123) is located in an expressed sequence tag.

Claim 33 (new) The process of claim 29 wherein the polypeptide is operatively linked to one or more transcription regulating

factors.

Claim 34 (new) A medicament comprising the polypeptide of claim 22.

Claim 35 (new) The polypeptide of claim 2, wherein one of the different nucleotide binding regions contains SEQ ID NO:41.

Claim 36 (new) The polypeptide of claim 2, wherein one of the different nucleotide binding regions contains SEQ ID NO:59.

Claim 37 (new) The polypeptide of claim 2, wherein one of the different nucleotide binding regions contains SEQ ID NO:80.